

WHAT IS CLAIMED IS:

1. A mobile detection system comprising a plurality of magnetic members arranged in a predetermined arrangement pattern whereby an installation place can be discriminated, and a mobile that has magnetic sensors capable of detecting external magnetic fields of the magnetic members and passes over a place having the magnetic members installed therein,

wherein when the mobile has passed over a place having the magnetic members installed therein, the place having the magnetic members installed therein over which the mobile has passed is discriminated on the basis of an arrangement pattern obtained from external magnetic fields of the magnetic members detected by the magnetic sensors.

2. The mobile detection system according to claim 1, wherein the arrangement pattern of the magnetic members comprises two magnetic members installed being spaced from each other in a travel direction of the mobile by a predetermined distance, and

when the mobile has passed over a place having the magnetic members installed therein, a passing velocity of the mobile at the time when the mobile has passed between the two magnetic members is determined on the basis of a time interval at which the magnetic sensors detect external magnetic fields of the two magnetic members.

3. The mobile detection system according to claim 1 or 2,

wherein

the mobile further comprises a clock unit, and a storage unit for storing information capable of identifying the mobile,

passing time of the mobile at the time when the mobile has passed over a place having the magnetic members installed therein is determined on the basis of time information supplied from the clock unit, and the mobile that has passed over the place having the magnetic members installed therein is identified on the basis of information stored in the storage unit.

4. The mobile detection system according to any one of claims 1 to 3, wherein each of the magnetic members comprises a plurality of magnets arranged in a straight line, and the magnets are installed so as to direct predetermined same polarities in a predetermined direction generally perpendicular to the straight line direction in which the magnets are arranged so as to be adjacent to each other.